Rebecca J. Dulin
Senior Counsel

Duke Energy
1201 Main Street
Capital Center Building
Suite 1180
Columbia, SC 29201

o: 803.988.7130
f: 803.988.7123
Rebecca.Dulin@duke-energy.com

January 31, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of December 2018.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

Rebecca J. Dulin

Enclosure

cc: Service List

Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item	December 2018
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 131,434,149
	MWH sales:	
2	Total System Sales	5,578,463
3	Less intersystem sales	750,335
4	Total sales less intersystem sales	4,828,128
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.7223
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.7874
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	890,164
8	Oil	11,361
9	Natural Gas - Combustion Turbine	168,409
10	Natural Gas - Combined Cycle	1,718,011
11	Biogas	535
12	Total Fossil	2,788,480
13	Nuclear	2,669,808
14	Hydro - Conventional	90,128
15	Solar Distributed Generation	12,126
16	Total MWH generation	5,560,542

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		December 2018
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	34,453,367
0501310 fuel oil consumed - steam		1,404,117
Total Steam Generation - Account 501		35,857,484
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		16,323,865
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		16,534,818
0547000 natural gas capacity - Combustion Turbine		1,922,069
0547000 natural gas consumed - Combined Cycle		45,160,775
0547000 natural gas capacity - Combined Cycle		9,204,854
0547106 biogas consumed - Combined Cycle		37,115
0547200 fuel oil consumed		1,051,520
Total Other Generation - Account 547		73,911,151
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		30,058,848
Fuel and fuel-related component of DERP purchases		19,683
PURPA purchased power capacity		2,047,397
DERP purchased power capacity		2,794
Total Purchased Power and Net Interchange - Account 555		32,128,722
Less fuel and fuel-related costs recovered through intersystem sales - Account 447		28,641,196
Total Costs Included in Base Fuel Component	$	129,580,026
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	1,264
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		2,048,497
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		142,079
Less emissions expense recovered through intersystem sales - Account 447		53,559
Total Costs Included in Environmental Component		1,854,122
Fuel and Fuel-related Costs excluding DERP incremental costs	$	131,434,149
DERP Incremental Costs		269,834
Total Fuel and Fuel-related Costs	$	131,703,983

Notes: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

DECEMBER 2018

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
DE Carolinas - Reliability	$ 3,231,108	-	48,673	$ 3,231,108	-
Broad River Energy, LLC.	4,832,944	$ 1,792,566	47,394	3,040,378	-
Cargill-Alligant, LLC.	-	-	-	-	-
City of Fayetteville	735,707	707,850	46	27,857	-
Haywood EMC	29,050	29,050	-	-	-
NCEMC	3,764,357	3,281,074	4,634	483,283	-
PJM Interconnection, LLC.	657,327	-	24,181	657,327	-
Southern Company Services	5,900,175	1,687,140	104,157	4,213,035	-
DE Carolinas - Native Load Transfer	5,028,731	-	177,167	5,028,731	-
DE Carolinas - Native Load Transfer Benefit	287,133	-	-	287,133	-
DE Carolinas - Fees	156,964	-	-	156,964	-
Energy Imbalance	76,079		1,761	73,835	$ 2,244
Generation Imbalance	1,096		25	669	427
	$ 24,700,671	**$ 7,497,680**	**408,038**	**$ 17,200,320**	**$ 2,671**
Act 236 PURPA Purchases					
Renewable Energy	$ 9,859,571	-	154,853	$ 9,859,571	-
DERP Qualifying Facilities	22,477	-	500	22,477	-
Other Qualifying Facilities	5,046,354	-	90,523	5,046,354	-
	$ 14,928,402	**$ -**	**245,876**	**$ 14,928,402**	**$ -**
Total Purchased Power	**$ 39,629,073**	**$ 7,497,680**	**653,914**	**$ 32,128,722**	**$ 2,671**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

DECEMBER 2018

	Total	Capacity	Non-capacity		
Sales	$	$	mWh	Fuel $	Non-fuel $
Market Based:					
NCEMC Purchase Power Agreement	$ 1,056,030	$ 652,500	8,542	$ 431,501	$ (27,971)
PJM Interconnection, LLC.	414	-	-	-	414
Other:					
DE Carolinas - Native Load Transfer Benefit	1,156,134	-	-	1,156,134	-
DE Carolinas - Native Load Transfer	27,946,872	-	741,793	27,249,198	697,674
Generation Imbalance	(73)	-	-	-	(73)
Total Intersystem Sales	**$ 30,159,377**	**$ 652,500**	**750,335**	**$ 28,836,833**	**$ 670,044**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
December 2018

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,828,127,846
2	DERP Net Metered kWh generation	Input					2,113,646
3	Adjusted System kWh sales	L1 + L2					4,830,241,492
4	Actual S.C. Retail kWh sales	Input	188,450,930	1,109,696	249,348,101	6,430,252	445,338,979
5	DERP Net Metered kWh generation	Input	826,540	23,924	1,263,182		2,113,646
6	Adjusted S.C. Retail kWh sales	L4 + L5	189,277,470	1,133,620	250,611,283	6,430,252	447,452,625
7	Actual S.C. Demand units (kw)	L32 / 31b *100			621,700		
	Base fuel component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					$116,383,228
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$67,763
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$116,450,991
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.411
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$4,563,240	$27,329	$6,041,920	$155,025	$10,787,514
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	($40,057)	($3,701)	($24,005)	$0	($67,763)
14	S.C. Retail portion of incurred system expense	L12 + L13	$4,523,183	$23,628	$6,017,915	$155,025	$10,719,751
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.367	2.366	2.366	2.366	2.367
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$4,461,456	$26,255	$5,899,576	$152,140	$10,539,427
17	DERP NEM incentive - fuel component	Input	($10,594)	($979)	($6,349)	$0	($17,922)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$4,450,862	$25,276	$5,893,227	$152,140	$10,521,505
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	$72,321	($1,648)	$124,688	$2,885	$198,246
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	$72,321	($1,648)	$124,688	$2,885	$198,246
	Base fuel component of recovery - capacity						
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.381	5.980			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			69		
23	Incurred S.C. base fuel - capacity expense	Input	$718,337	$66,360	$430,482		$1,215,179
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.676	0.426			
24b	Billed base fuel - capacity rate (¢/kW)	Input			88		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$1,274,434	$4,727	$ 547,117	$0	$1,826,278
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	($556,097)	$61,633	($116,635)	$0	($611,099)
27	Adjustment	Input	$0	$0	$0	$0	$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	($556,097)	$61,633	($116,635)	$0	($611,099)
	Environmental component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.054	0.842			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			10		
30	Incurred S.C. environmental expense	Input	$101,097	$9,339	$60,585		$171,021
31a	Billed environmental rates by class (¢/kWh)	Input	0.019	0.008			
31b	Billed environmental rate (¢/kW)	Input			1		
32	Billed S.C. environmental revenue	L31a * L4 /100	$35,557	$89	$ 6,217		$41,863
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	$65,540	$9,250	$54,368	$0	$129,158
34	Adjustment	Input					$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	$65,540	$9,250	$54,368	$0	$129,158
	Distributed Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.001	0.010			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.118		
37	Incurred S.C. DERP avoided cost expense	Input	$1,226	$113	$734		$2,073
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.003	0.001			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$5,614	$11	$0		$5,625
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	($4,388)	$102	$734	$0	($3,552)
41	Adjustment	Input	$0	$0	$0	$0	$0
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	($4,388)	$102	$734	$0	($3,552)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	($422,624)	$69,337	$63,155	$2,885	($287,247)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
December 2018

Year 2018-2019

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	$23,394,223					
March 2018 - actual	23,722,902	$105,966	$14,137	$203,204	$5,372	$328,679
April 2018 - actual	23,109,195	(170,943)	(23,111)	(411,945)	(7,708)	(613,707)
May 2018 - actual	23,830,285	191,924	30,025	488,780	10,361	721,090
June 2018 - actual	25,124,368	428,696	63,626	785,404	16,357	1,294,083
July 2018 - actual	24,946,484	(67,321)	(9,747)	(99,157)	(1,659)	(177,884)
August 2018 - actual	24,050,415	(311,321)	(46,740)	(528,335)	(9,673)	(896,069)
September 2018 - actual	24,878,029	299,793	45,472	471,998	10,351	827,614
October 2018 - actual	21,969,123	(837,198)	(131,238)	(1,906,421)	(34,049)	(2,908,906)
November 2018 - actual	21,874,458	(35,810)	(9,976)	(47,667)	(1,212)	(94,665)
December 2018 - actual	22,072,704	72,321	(1,648)	124,688	2,885	198,246
_/2 January 2019 - forecast	20,844,113	(516,927)	(49,794)	(646,373)	(15,497)	(1,228,591)
_/2 February 2019 - forecast	19,385,574	(581,562)	(61,606)	(796,238)	(19,133)	(1,458,539)
_/2 March 2019 - forecast	17,479,160	(709,744)	(86,270)	(1,084,341)	(26,059)	(1,906,414)
_/2 April 2019 - forecast	13,885,473	(1,150,562)	(178,242)	(2,212,046)	(52,837)	(3,593,687)
_/2 May 2019 - forecast\	11,750,792	(602,133)	(112,282)	(1,387,182)	(33,084)	(2,134,681)
_/2 June 2019 - forecast	$10,503,240	($400,984)	($62,211)	($766,130)	($18,227)	($1,247,552)

Year 2018-2019

Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	$1,622,067					
March 2018 - actual	1,523,528	$79,187	($398)	($177,328)	$0	($98,539)
April 2018 - actual	2,089,902	479,717	34,630	52,027	0	566,374
May 2018 - actual	2,445,242	379,717	16,470	(40,847)	0	355,340
June 2018 - actual	2,666,876	217,876	(2,152)	5,910	0	221,634
July 2018 - actual	2,857,544	88,083	(5,454)	108,039	0	190,668
August 2018 - actual	2,709,391	(174,287)	(21,437)	47,571	0	(148,153)
September 2018 - actual	2,361,078	(199,912)	(23,546)	(124,855)	0	(348,313)
October 2018 - actual	1,891,426	(303,466)	(34,886)	(131,300)	0	(469,652)
November 2018 - actual	1,846,089	47,213	(95,245)	2,695	0	(45,337)
December 2018 - actual	1,234,990	(556,097)	61,633	(116,635)	0	(611,099)
_/2 January 2019 - forecast	394,928	(805,580)	(15,658)	(18,824)	0	(840,062)
_/2 February 2019 - forecast	(242,869)	(568,087)	(9,516)	(60,194)	0	(637,797)
_/2 March 2019 - forecast	(374,072)	(166,399)	11,044	24,152	0	(131,203)
_/2 April 2019 - forecast	(99,991)	119,328	10,394	144,359	0	274,081
_/2 May 2019 - forecast\	209,621	260,656	5,149	43,807	0	309,612
_/2 June 2019 - forecast	$144,964	($26,033)	($2,734)	($35,890)	$0	($64,657)

Year 2018-2019

Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	($616,504)					
March 2018 - actual	(648,397)	($9,388)	($802)	($21,703)	$0	($31,893)
April 2018 - actual	(646,907)	10,886	939	(10,335)	0	1,490
May 2018 - actual	(644,440)	13,284	519	(11,336)	0	2,467
June 2018 - actual	(578,713)	44,416	3,379	17,932	0	65,727
July 2018 - actual	(485,932)	52,174	4,953	35,654	0	92,781
August 2018 - actual	(331,044)	82,556	8,644	63,688	0	154,888
September 2018 - actual	(243,057)	43,796	5,046	39,145	0	87,987
October 2018 - actual	(185,125)	26,868	3,296	27,768	0	57,932
November 2018 - actual	(103,746)	43,556	2,923	34,900	0	81,379
December 2018 - actual	25,412	65,540	9,250	54,368	0	129,158
_/2 January 2019 - forecast	255,883	121,347	13,802	95,322	0	230,471
_/2 February 2019 - forecast	447,461	101,144	11,454	78,980	0	191,578
_/2 March 2019 - forecast	451,396	(7,592)	971	10,556	0	3,935
_/2 April 2019 - forecast	422,761	(24,804)	(1,314)	(2,517)	0	(28,635)
_/2 May 2019 - forecast\	430,531	(720)	418	8,072	0	7,770
_/2 June 2019 - forecast	$484,401	$24,362	$3,264	$26,244	$0	$53,870

Year 2018-2019

Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	$2,713					
March 2018 - actual	7,033	$2,554	$236	$1,530	$0	$4,320
April 2018 - actual	14,508	4,419	408	2,648	0	7,475
May 2018 - actual	21,181	3,945	364	2,364	0	6,673
June 2018 - actual	23,496	1,368	127	820	0	2,315
July 2018 - actual	26,569	755	189	2,129	0	3,073
August 2018 - actual	36,281	3,500	568	5,644	0	9,712
September 2018 - actual	39,362	(348)	203	3,226	0	3,081
October 2018 - actual	32,433	(5,959)	(354)	(616)	0	(6,929)
November 2018 - actual	34,431	(208)	(80)	2,286	0	1,998
December 2018 - actual	30,879	(4,388)	102	734	0	(3,552)
_/2 January 2019 - forecast	28,785	(4,232)	81	2,057	0	(2,094)
_/2 February 2019 - forecast	27,767	(3,213)	96	2,099	0	(1,018)
_/2 March 2019 - forecast	27,577	(2,451)	99	2,162	0	(190)
_/2 April 2019 - forecast	28,699	(1,272)	103	2,291	0	1,122
_/2 May 2019 - forecast\	30,388	(619)	87	2,221	0	1,689
_/2 June 2019 - forecast	$30,701	($1,811)	$61	$2,063	$0	$313

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
December 2018

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$159,509	$63,301	$47,024	$269,834
45	Billed S.C. DERP incremental rates by account ($/account)	Input	0.72	1.26	99.55	
46	Billed S.C. DERP incremental revenue	Input	$94,727	$38,997	$24,167	$157,891
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	$64,782	$24,304	$22,857	$111,943
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	$64,782	$24,304	$22,857	$111,943

	Year 2018-2019 Cumulative (over) / under recovery	Cumulative	Total
	Balance ending February 2018	($448,552)	
	March 2018 - actual	(541,339)	($92,787)
	April 2018 - actual	(634,011)	(92,672)
	May 2018 - actual	(707,644)	(73,633)
	June 2018 - actual	(702,927)	4,717
	July 2018 - actual	(661,166)	41,761
	August 2018 - actual	(600,348)	60,818
	September 2018 - actual	(518,066)	82,282
	October 2018 - actual	(452,317)	65,749
	November 2018 - actual	(340,374)	111,943
	December 2018 - actual	(251,280)	89,094
_/2	January 2019 - forecast	(138,471)	112,809
_/2	February 2019 - forecast	(18,993)	119,478
_/2	March 2019 - forecast	116,486	135,479
_/2	April 2019 - forecast	265,199	148,713
_/2	May 2019 - forecast\	420,981	155,782
_/2	June 2019 - forecast	$584,713	$163,732

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.384 and RECD 5% discount.

_/2 Forecast amounts based on low end of range of expected fuel rates.

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$6,048,018	-	$19,917,937	$3,310,380
Oil	-	-	-	25,132	689,175	-	644,700	583,025
Gas - CC	-	22,347,790	15,176,857	-	-	-	-	-
Gas - CT	23	-	350,091	-	-	82,860	-	-
Biogas	-	-	-	-	-	-	-	-
Total	23	$22,347,790	$15,526,948	25,132	$6,737,193	$82,860	$20,562,637	$3,893,405
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	356.74	-	370.84	340.42
Oil	-	-	-	-	1,373.27	-	1,656.86	1,654.07
Gas - CC	-	515.43	580.11	-	-	-	-	-
Gas - CT	-	-	808.71	-	-	879.90	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	515.43	583.83	-	385.97	879.90	380.08	386.37
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$4,606,527	-	$20,503,153	$9,343,687
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	2,506	-	22,915	-	282,437	500,257	648,380	473,301
Gas - CC	-	22,347,790	15,176,857	-	-	-	-	-
Gas - CT	23	-	350,091	-	-	82,860	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	3,237,464	-	-	-	-
Total	$2,529	$22,347,790	$15,549,863	$3,237,464	$4,888,964	$583,117	$21,151,533	$9,816,988
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	275.06	-	365.85	324.35
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,596.18	-	2,062.56	-	1,576.19	1,576.21	1,648.81	1,611.35
Gas - CC	-	515.43	580.11	-	-	-	-	-
Gas - CT	-	-	808.71	-	-	879.90	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	55.67	-	-	-	-
Weighted Average	1,610.83	515.43	584.45	55.67	288.83	1,416.88	374.79	337.34
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.60	-	3.68	4.57
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	21.72	-	20.66	24.19	17.89	22.72
Gas - CC	-	3.72	4.55	-	-	-	-	-
Gas - CT	-	-	8.39	-	-	13.18	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.57	-	-	-	-
Weighted Average	-	3.72	4.61	0.57	3.78	21.62	3.77	4.76
Burned MBTU's								
Coal	-	-	-	-	1,674,758	-	5,604,212	2,880,702
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	157	-	1,111	-	17,919	31,738	39,324	29,373
Gas - CC	-	4,335,798	2,616,194	-	-	-	-	-
Gas - CT	-	-	43,290	-	-	9,417	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	5,815,212	-	-	-	-
Total	157	4,335,798	2,660,595	5,815,212	1,692,677	41,155	5,643,536	2,910,075
Net Generation (mWh)								
Coal	-	-	-	-	128,040	-	557,787	204,336
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	(12)	-	106	-	1,367	2,068	3,625	2,084
Gas - CC	-	600,171	333,266	-	-	-	-	-
Gas - CT	(61)	-	4,173	-	-	629	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	572,801	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(73)	600,171	337,545	572,801	129,407	2,697	561,412	206,420
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	189,507	52,508
Limestone	-	-	-	-	200,492	-	698,890	356,537
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	240,899	161,301
Urea	-	-	-	-	120,383	-	-	-
Total	-	-	-	-	$320,875	-	$1,129,297	$570,347

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME December 2018
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$29,276,335	$271,180,881
Oil	12,791	-	-	-	-	2,288	1,957,111	80,777,894
Gas - CC	-	-	-	-	16,840,982	-	54,365,629	649,230,756
Gas - CT	-	-	575,141	87,917	17,360,855	-	18,456,887	185,884,718
Biogas	-	-	-	-	98,728	-	98,728	582,184
Total	12,791	-	$575,141	$87,917	$34,201,837	2,288	$104,154,690	$1,187,656,433
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	364.18	332.56
Oil	1,232.27	-	-	-	-	-	1,560.92	1,716.32
Gas - CC	-	-	-	-	503.24	-	527.90	478.39
Gas - CT	-	-	511.32	509.99	449.57	-	456.39	366.98
Biogas	-	-	-	-	2,970.16	-	2,970.16	2,934.10
Weighted Average	1,232.27	-	511.32	509.99	475.64	-	462.70	435.62
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$34,453,367	$307,900,875
Oil - CC	-	-	-	-	178	-	178	1,854
Oil - Steam/CT	-	-	95,245	372,390	58,028	-	2,455,459	74,104,768
Gas - CC	-	-	-	-	16,840,982	-	54,365,629	649,230,756
Gas - CT	-	-	575,141	87,917	17,360,855	-	18,456,887	185,884,718
Biogas	-	-	-	-	98,728	-	98,728	582,184
Nuclear	8,644,326	-	-	-	-	4,859,558	16,741,348	184,163,879
Total	$8,644,326	$0	$670,386	$460,307	34,358,771.00	$4,859,558	$126,571,596	$1,401,869,034
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	339.12	324.38
Oil - CC	-	-	-	-	1,618.18	-	1,618.18	1,655.36
Oil - Steam/CT	-	-	1,742.82	1,727.31	1,662.69	-	1,635.49	1,687.24
Gas - CC	-	-	-	-	503.24	-	527.90	478.39
Gas - CT	-	-	511.32	509.99	449.57	-	456.39	366.98
Biogas	-	-	-	-	2,970.16	-	2,970.16	2,934.10
Nuclear	60.91	-	-	-	-	64.95	60.90	63.70
Weighted Average	60.91	-	568.38	1,186.42	476.21	64.95	242.73	243.89
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.87	3.58
Oil - CC	-	-	-	-	17.80	-	17.80	20.60
Oil - Steam/CT	-	-	22.28	26.04	18.43	-	21.61	21.15
Gas - CC	-	-	-	-	2.15	-	3.16	3.34
Gas - CT	-	-	6.44	7.88	11.30	-	10.96	4.43
Biogas	-	-	-	-	18.47	-	18.47	20.87
Nuclear	0.64	-	-	-	-	0.66	0.63	0.67
Weighted Average	0.64	-	7.16	18.09	3.66	0.66	2.28	2.29
Burned MBTU's								
Coal	-	-	-	-	-	-	10,159,672	94,918,963
Oil - CC	-	-	-	-	11	-	11	112
Oil - Steam/CT	-	-	5,465	21,559	3,490	-	150,136	4,392,067
Gas - CC	-	-	-	-	3,346,521	-	10,298,513	135,711,710
Gas - CT	-	-	112,482	17,239	3,861,654	-	4,044,082	50,652,825
Biogas	-	-	-	-	3,324	-	3,324	19,842
Nuclear	14,191,023	-	-	-	-	7,482,367	27,488,602	289,101,792
Total	14,191,023	-	117,947	38,798	7,215,000	7,482,367	52,144,340	574,797,311
Net Generation (mWh)								
Coal	-	-	-	-	-	-	890,164	8,603,387
Oil - CC	-	-	-	-	1	-	1	9
Oil - Steam/CT	-	(49)	427	1,430	315	-	11,360	350,354
Gas - CC	-	-	-	-	784,574	-	1,718,011	19,454,158
Gas - CT	-	-	8,937	1,115	153,616	-	168,409	4,193,549
Biogas	-	-	-	-	535	-	535	2,789
Nuclear	1,355,095	-	-	-	-	741,912	2,669,808	27,490,999
Hydro (Total System)							90,128	805,640
Solar (Total System)							12,126	235,193
Total	1,355,095	(49)	9,364	2,545	939,041	741,912	5,560,542	61,136,078
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$27,978	-	$269,993	$1,870,262
Limestone	-	-	-	-	-	-	1,255,920	11,036,341
Re-emission Chemical	-	-	-	-	-	-	-	170,839
Sorbents	-	-	-	-	-	-	402,201	3,053,975
Urea	-	-	-	-	-	-	120,383	1,168,321
Total	-	-	-	-	$27,978	-	$2,048,497	$17,299,737

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
December 2018

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	63,663
Tons received during period	-	-	-	-	66,620
Inventory adjustments	-	-	-	-	32,554
Tons burned during period	-	-	-	-	66,148
Ending balance	-	-	-	-	96,689
MBTUs per ton burned	-	-	-	-	25.32
Cost of ending inventory ($/ton)	-	-	-	-	69.64
Oil Data:					
Beginning balance	670,454	-	2,632,614	78,040	3,040,017
Gallons received during period	-	-	-	-	363,659
Miscellaneous use and adjustments	-	-	(792)	-	(4,784)
Gallons burned during period	1,119	-	8,171	-	361,237
Ending balance	669,335	-	2,623,651	78,040	3,037,655
Cost of ending inventory ($/gal)	2.24	-	2.80	2.41	2.17
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,179,841	2,601,387	-	9,170
MCF burned during period	-	4,179,841	2,601,387	-	9,170
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	7,573
Tons received during period	-	-	-	-	7,667
Inventory adjustments	-	-	-	-	(1,507)
Tons consumed during period	-	-	-	-	3,339
Ending balance	-	-	-	-	10,394
Cost of ending inventory ($/ton)	-	-	-	-	58.19

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Gas is burned as received; therefore, inventory balances are not maintained.
The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	897,316	272,314	-	-	-
Tons received during period	215,447	37,800	-	-	-
Inventory adjustments	(82,299)	(4,172)	-	-	-
Tons burned during period	221,424	111,985	-	-	-
Ending balance	809,040	193,957	-	-	-
MBTUs per ton burned	25.31	25.72	-	-	-
Cost of ending inventory ($/ton)	92.58	83.44	-	-	-
Oil Data:					
Beginning balance	220,802	227,091	168,475	807,190	12,057,561
Gallons received during period	281,963	255,417	7,524	-	-
Miscellaneous use and adjustments	(7,720)	(4,647)	-	-	-
Gallons burned during period	284,955	212,913	5,469	-	39,675
Ending balance	210,090	264,948	170,530	807,190	12,017,886
Cost of ending inventory ($/gal)	2.28	2.22	2.41	2.37	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	108,162
MCF burned during period	-	-	-	-	108,162
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	90,754	16,764	-	-	-
Tons received during period	6,897	48	-	-	-
Inventory adjustments	-	(2,552)	-	-	-
Tons consumed during period	16,138	5,725	-	-	-
Ending balance	81,513	8,535	-	-	-
Cost of ending inventory ($/ton)	41.67	61.96	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
December 2018

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME December 2018
Coal Data:					
Beginning balance	-	-	-	1,233,293	1,684,574
Tons received during period	-	-	-	319,867	3,235,908
Inventory adjustments	-	-	-	(53,917)	(53,917)
Tons burned during period	-	-	-	399,557	3,766,879
Ending balance	-	-	-	1,099,686	1,099,686
MBTUs per ton burned	-	-	-	25.43	25.20
Cost of ending inventory ($/ton)	-	-	-	88.95	88.95
Oil Data:					
Beginning balance	10,629,342	8,343,738	292,025	39,167,349	37,095,359
Gallons received during period	-	-	-	908,563	34,104,785
Miscellaneous use and adjustments	-	-	-	(17,943)	(195,726)
Gallons burned during period	155,608	25,006	-	1,094,153	32,040,602
Ending balance	10,473,734	8,318,732	292,025	38,963,816	38,963,816
Cost of ending inventory ($/gal)	2.39	2.33	2.41	2.39	2.39
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	16,923	7,050,343	-	13,965,826	181,282,585
MCF burned during period	16,923	7,050,343	-	13,965,826	181,282,585
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	3,249	-	3,249	19,343
MCF burned during period	-	3,249	-	3,249	19,343
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	115,091	136,519
Tons received during period	-	-	-	14,612	214,985
Inventory adjustments	-	-	-	(4,059)	(3,989)
Tons consumed during period	-	-	-	25,202	247,073
Ending balance	-	-	-	100,442	100,442
Cost of ending inventory ($/ton)	-	-	-	45.10	45.10

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

DECEMBER 2018

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	43,850	$ 4,100,232	$ 93.51
	CONTRACT	22,770	1,868,995	82.08
	ADJUSTMENTS	-	78,791	-
	TOTAL	66,620	6,048,018	90.78
MAYO	SPOT	25,207	2,287,499	90.75
	CONTRACT	12,593	943,811	74.95
	ADJUSTMENTS	-	79,070	-
	TOTAL	37,800	3,310,380	87.58
ROXBORO	SPOT	190,029	17,416,027	91.65
	CONTRACT	25,418	2,049,986	80.65
	ADJUSTMENTS	-	451,924	-
	TOTAL	215,447	19,917,937	92.45
ALL PLANTS	SPOT	259,086	23,803,758	91.88
	CONTRACT	60,781	4,862,792	80.01
	ADJUSTMENTS	-	609,785	-
	TOTAL	319,867	$ 29,276,335	$ 91.53

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

DECEMBER 2018

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	6.51	9.62	12,724	1.66
MAYO	6.40	8.81	12,863	2.92
ROXBORO	6.56	10.76	12,465	1.85

Schedule 9

DUKE ENERGY PROGRESS

ANALYSIS OF OIL PURCHASED

DECEMBER 2018

	ASHEVILLE	ASHEVILLE	BRUNSWICK	MAYO	ROXBORO
VENDOR	Indigo	Indigo	Hightowers Petroleum Co.	Greensboro Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Spot	Contract	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0	0	0
GALLONS RECEIVED	7,604	356,055	7,524	255,417	281,963
TOTAL DELIVERED COST	$ 17,707	$ 671,468	$ 12,791	$ 583,025	$ 644,700
DELIVERED COST/GALLON	$ 2.33	$ 1.89	$ 1.70	$ 2.28	$ 2.29
BTU/GALLON	138,000	138,000	138,000	138,000	138,000

Notes:

Price adjustments of $2,288 and $25,132 for the Harris and Robinson stations, respectively, are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2018 - December, 2018
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,094,066	938	86.34	88.92
Brunswick 2	7,532,901	932	92.27	95.11
Harris 1	7,587,914	932	92.94	89.02
Robinson 2	5,276,118	741	81.28	78.71

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2018 through December, 2018
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,440,885	225	73.10	82.04
Lee Energy Complex	1B	1,443,265	227	72.58	81.24
Lee Energy Complex	1C	1,463,994	228	73.30	81.11
Lee Energy Complex	ST1	2,862,522	379	86.22	93.68
Lee Energy Complex	Block Total	7,210,666	1,059	77.73	85.83
Richmond County CC	7	1,264,040	189	76.35	84.11
Richmond County CC	8	1,249,912	189	75.49	83.61
Richmond County CC	ST4	1,409,376	175	91.94	92.29
Richmond County CC	9	1,476,943	216	78.06	83.37
Richmond County CC	10	1,487,809	216	78.63	83.81
Richmond County CC	ST5	1,933,643	248	89.01	94.20
Richmond County CC	Block Total	8,821,723	1,233	81.67	87.04
Sutton Energy Complex	1A	1,101,793	224	56.15	69.15
Sutton Energy Complex	1B	1,113,940	224	56.77	67.18
Sutton Energy Complex	ST1	1,208,835	271	50.92	62.58
Sutton Energy Complex	Block Total	3,424,568	719	54.37	66.06

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2018 through December, 2018

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,491,333	746	22.82	69.68
Roxboro 2	1,895,094	673	32.14	76.80
Roxboro 3	1,530,179	698	25.03	62.55
Roxboro 4	1,678,155	711	26.94	53.55

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2018 through December, 2018
Other Cycling Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	669,236	192	39.79	91.71
Asheville 2	568,667	192	33.81	95.43
Roxboro 1	824,171	380	24.76	88.95

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2018 through December, 2018
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	506,865	370	77.48
Blewett CT	199	68	92.78
Darlington CT	230,819	846	75.35
Richmond County CT	3,073,958	934	84.69
Sutton Fast Start CT	218,887	98	87.70
Wayne County CT	458,014	963	95.82
Weatherspoon CT	1,712	164	94.60

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data

Twelve Month Summary
January, 2018 through December, 2018
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	88,367	27.0	69.71
Marshall	812	4.0	9.17
Tillery	238,608	84.0	91.55
Walters	477,853	113.0	89.32

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.